

Title (en)

LIGHT PATH FOLDING ELEMENT, CAMERA MODULE AND ELECTRONIC DEVICE

Title (de)

STRAHLENGANGFALTELEMENT, KAMERAMODUL UND ELEKTRONISCHE VORRICHTUNG

Title (fr)

ÉLÉMENT DE PLIAGE DE TRAJET DE LUMIÈRE, MODULE DE CAMÉRA ET DISPOSITIF ÉLECTRONIQUE

Publication

EP 4328634 A1 20240228 (EN)

Application

EP 23193365 A 20230825

Priority

- US 202263373557 P 20220826
- TW 112123543 A 20230621

Abstract (en)

A light path folding element includes a first surface, a second surface, a first reflecting surface and a second reflecting surface. A light travels from the first surface into the light path folding element. The second surface is disposed relative to the first surface along a first direction and is parallel to the first surface, and the first direction is perpendicular to the first surface. The first reflecting surface connects the first surface and the second surface, an acute angle is formed between the first reflecting surface and the first surface, and the light forms an internal reflection via the first reflecting surface. The light forms another internal reflection via the second reflecting surface. The light path folding element further includes a light blocking structure, which extends from at least one of the first surface and the second surface into the light path folding element.

IPC 8 full level

G02B 5/00 (2006.01); **G02B 5/04** (2006.01); **G02B 13/00** (2006.01); **G02B 27/00** (2006.01)

CPC (source: BR EP US)

G02B 5/003 (2013.01 - BR EP); **G02B 5/04** (2013.01 - BR EP); **G02B 13/0065** (2013.01 - BR EP); **G02B 27/0018** (2013.01 - BR); **G03B 17/17** (2013.01 - US); **H04N 23/55** (2023.01 - US); **G02B 5/005** (2013.01 - EP); **G02B 27/0018** (2013.01 - EP)

Citation (search report)

- [IA] US 2022196993 A1 20220623 - LIAO MIN-CHUN [TW], et al
- [IA] US 2022163706 A1 20220526 - FELDMAN ALEXANDER YU [US], et al
- [IA] US 2021080706 A1 20210318 - LIN CHENG-FENG [TW], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

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